

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A grain threshing device ~~characterised~~ by comprising:

a receptacle arranged to receive a portion of crop head, the receptacle being dimensioned to enable the grain threshing device when in use to be held by a person, the receptacle having a cylindrical inner face, the inner face of the receptacle having a plurality of longitudinal axial ribs on inner surfaces thereof; and

a shaft rotatably mounted within the receptacle; ~~and the shaft supporting a plurality of one or more flexible arm members extending substantially radially from the shaft, the arm members being arranged dimensioned to extend from the shaft to the inner face such that their outer ends are to be able to strike the longitudinal axial ribs upon rotation of the shaft; wherein rotation of the shaft and the flexible arm members causes the arm members to strike the crop head in the receptacle to separate the grain from the crop head.~~

2. (Currently Amended) A grain threshing device as claimed in claim 1, ~~characterised in that~~ wherein the receptacle comprises a cylindrical vessel and the shaft is rotatably mounted to extend along a central longitudinal axis of the cylindrical vessel.

3. (Currently Amended) A grain threshing device as claimed in claim 1 ~~or 2~~, ~~characterised in that~~ wherein the flexible arm members are arranged to extend

transversely to the shaft.

4. (Currently Amended) A grain threshing device as claimed ~~in any one of~~ in claims 1 to 3, ~~characterised in that~~ wherein flexible arm members comprise flat elongate strips wherein the ~~distal~~ outer ends of the elongate strips are arranged to strike the axial ribs in use.

5. (Currently Amended) A grain threshing device as claimed ~~in any one of the preceding claims, characterised in that~~ in claim 2, wherein a removable lid is provided at a ~~first one~~ end of the receptacle, through which the crop head is in use able to be inserted introduced into the receptacle, and a mesh is provided across ~~an open second~~ another end of the receptacle, through which the threshed grain exits the receptacle.

6. (Currently Amended) A grain threshing device as claimed in claim 5, ~~characterised in that~~ wherein the mesh is removable such that different mesh sizes may be used for different grain crops.

7. (Currently Amended) A grain threshing device as claimed ~~in any one of the preceding claims, characterised in that~~ claim 3, wherein the arm members are supported from the shaft by a mounting means, said mounting means is provided having a longitudinal bore within which the shaft is received, the flexible arm members being secured to the mounting means.

8. (Currently Amended) A grain threshing device as claimed in claim 7, ~~characterised in that~~ wherein the mounting means comprises an elongate member having a plurality of transversely extending portions extending outwardly from opposed sides of the elongate member, the flexible arm members being secured to the transversely extending portions.

9. (Currently Amended) A grain threshing device as claimed in 7, ~~characterised in that~~ wherein the mounting means comprises a rectangular plate member, the flexible arm members being secured to a surface of the rectangular plate member.

10. (Currently Amended) A grain threshing device as claimed in ~~any one of the preceding claims, characterised in that~~ claim 1, wherein the axial ribs are arranged at regular angular intervals around the inner ~~surface~~ face of the receptacle.

11. (Currently Amended) A grain threshing device as claimed in any one of the preceding claims, ~~characterised in that~~ wherein the axial ribs have a generally triangular transverse cross section.

12. (Currently Amended) A portable grain thresher ~~characterised by~~ comprising:

a ~~portable~~ receptacle arranged to receive a portion of crop head, the receptacle having a cylindrical inner face, the inner face of the receptacle having a plurality of ~~longitudinal~~ axial ribs ~~spaced on around inner surfaces~~ face thereof;

a shaft rotatably mounted within the receptacle, the shaft having an end ~~thereof~~
external of the receptacle which in use is able to be engaged ~~engageable~~ with a portable
drive means; and

one or more flexible arm members extending from the shaft, the arm members
being dimensioned to extend from the shaft to the inner face such that their outer ends are
to be able ~~arranged~~ to strike the ~~longitudinal~~ axial ribs upon rotation of the shaft;
wherein in use the portable drive means causes rotation of the shaft and the arm members
such that the arm members strike the crop head in the receptacle to separate the grain
from the crop head.

13. (Currently Amended) A portable grain thresher as claimed in claim 12, ~~characterised~~
~~in that~~ wherein the receptacle comprises a cylindrical vessel and the shaft is rotatably
mounted to extend along a central longitudinal axis of the cylindrical vessel.

14. (Currently Amended) A portable grain thresher as claimed in claim 12 ~~or 13~~,
~~characterised in that~~ wherein the flexible arm members are arranged to extend
transversely to the shaft.

15. (Currently Amended) A portable grain thresher as claimed in ~~any one of claims~~
~~claim 12 to 14, characterised in that~~ wherein flexible arm members comprise flat elongate
strips wherein in use the ~~distal outer~~ ends of the elongate strips are arranged to strike the
axial ribs ~~in use~~.

16. (Currently Amended) A portable grain thresher as claimed in ~~any one claims 12 to 15~~13, ~~characterised in that~~ wherein a removable lid is provided at ~~a first~~ one end of the receptacle, through which in use the crop head is to be introduced ~~inserted~~ into the receptacle, and a mesh is provided across ~~an open second~~ another end of the receptacle, through which the threshed grain exits the receptacle.

17. (Currently Amended) A portable grain thresher as claimed in claim 16, ~~characterised in that~~ wherein the mesh is removable such that different mesh sizes may be used for different grain crops.

18. (Currently Amended) A portable grain thresher as claimed in claim 16 ~~or 17~~, ~~characterised in that~~ wherein the shaft is rotatably secured ~~adjacent a first end thereof~~ within a hole in the removable lid and ~~rotatably secured adjacent a second end thereof~~ within an aperture in the mesh.

19. (Currently Amended) A portable grain thresher as claimed ~~in any one of claims 16 to 18~~ in claim 17, wherein the portable grain thresher further comprises a collection vessel ~~second~~ the another end of the receptacle is provided with a ~~narrowed portion~~, the ~~narrowed portion being arranged~~ reduced diameter portion which in use is to be received within a the collection vessel.

20. (Currently Amended) A portable grain thresher as claimed in claim 19, wherein locking means are provided on the ~~narrowed~~ reduced diameter portion and ~~an upper edge~~

of the collection vessel to removably secure the receptacle to the collection vessel.

21. (Currently Amended) A portable grain thresher as claimed in ~~any one claims 12 to 20~~ claim 14, ~~characterised in that~~ wherein the arm members are supported from the shaft by a mounting means ~~is provided, the mounting means~~ having a longitudinal bore within which the shaft is received, ~~and~~ the flexible arm members being secured to the mounting means.

22. (Currently Amended) A portable grain thresher as claimed in claim 21, ~~characterised in that~~ wherein the mounting means comprises an elongate member having a plurality of transversely extending portions extending outward from opposed sides of the elongate member, the flexible arm members being secured to the transversely extending portions.

23. (Currently Amended) A portable grain thresher as claimed in 21, ~~characterised in that~~ wherein the mounting means comprises a rectangular plate member, the flexible arm members being secured to a surface of the rectangular plate member.

24. (Currently Amended) A portable grain thresher as claimed in any one of claims 12 to 23, ~~characterised in that~~ wherein the axial ribs are arranged at regular angular intervals around the inner surface of the receptacle.

25. (Currently Amended) A portable grain thresher as claimed in any one of claims 12 to

24, ~~characterised in that~~ wherein the axial ribs have a generally triangular transverse cross section.

26. (New) A grain threshing device as claimed at claim 3, wherein flexible arm members comprise flat elongate strips wherein the distal ends of the elongate strips are arranged to strike the axial ribs in use.

27. (New) A grain threshing device as claimed at claim 14, wherein flexible arm members comprise flat elongate strips wherein the distal ends of the elongate strips are arranged to strike the axial ribs in use.

28. (New) A grain threshing device comprising: a receptacle arranged to receive a portion of crop head, the receptacle being dimensioned to enable the grain threshing device when in use to be held by a person; the receptacle having a cylindrical inner face, the inner face of the receptacle having a plurality of axial ribs; a shaft rotatably mounted within the receptacle; the shaft supporting a plurality of flexible arm members extending substantially radially from the shaft; the arm members being dimensioned to extend from the shaft to the inner face such that their outer ends are to be able to strike the axial ribs upon rotation of the shaft; wherein flexible arm members comprise flat elongate strips wherein the outer ends of the elongate strips are arranged to strike the axial ribs in use; and the axial ribs are arranged at regular angular intervals around the inner face of the receptacle.

29. (New) A portable grain thresher comprising: a receptacle arranged to receive a portion of crop head; the receptacle having a cylindrical inner face, the inner face of the receptacle having a plurality of axial ribs spaced around inner face; a shaft rotatably mounted within the receptacle, the shaft having an end external of the receptacle which in use is able to be engaged with a portable drive means; and one or more flexible arm members extending from the shaft, the arm members being dimensioned to extend from the shaft to the inner face such that their outer ends are to be able to strike the axial ribs upon rotation of the shaft; a removable lid is provided at one end of the receptacle, through which in use the crop head is to be introduced into the receptacle, and a mesh is provided across the other end of the receptacle, through which the threshed grain exits the receptacle; and the axial ribs are arranged at regular angular intervals around the inner face of the receptacle wherein in use the portable drive means causes rotation of the shaft and the arm members such that the arm members strike the crop head in the receptacle to separate the grain from the crop head.